



Figure similar

MLFB-Ordering data

1FK7083-2AF71-1UA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Engineering data

Rated speed (100 K) 3000 rpm

Number of poles 8

Rated torque (100 K) 10.5 Nm

Rated current 7.2 A

Static torque (60 K) 13.30 Nm

Static torque (100 K) 16.00 Nm

Stall current (60 K) 8.20 A

Stall current (100 K) 10.10 A

Moment of inertia 26.000 kgcm²

Efficiency 93.0 %

Physical constants

Torque constant 1.58 Nm/A

Voltage constant at 20° C 102.5 V/1000*min⁻¹

Winding resistance at 20° C 0.38 Ω

Rotating field inductance 7.0 mH

Electrical time constant 18.60 ms

Mechanical time constant 1.18 ms

Thermal time constant 50 min

Shaft torsional stiffness 101000 Nm/rad

Net weight of the motor 15.6 kg

Mechanical data

Motor type Permanent-magnet synchronous motor

Motor type Compact

Shaft height 80

Cooling Natural cooling

Radial runout tolerance 0.050 mm

Concentricity tolerance 0.10 mm

Axial runout tolerance 0.10 mm

Vibration severity grade Grade A

Connector size 1

Degree of protection IP64

Design acc. to Code I IM B5 (IM V1, IM V3)

Temperature monitoring Pt1000 temperature sensor

Electrical connectors Connectors for signals and power rotatable

Color of the housing Standard (Anthracite RAL 7016)

Holding brake without holding brake

Shaft end Feather key

Encoder system Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)



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Optimum operating point		Recommended Motor Module	
Optimum speed	3000 rpm	Rated inverter current	9 A
Optimum power	3.3 kW	Maximum inverter current	27 A
Limiting data		Maximum torque	40.00 Nm
Max. permissible speed (mech.)	6000 rpm		
Max. permissible speed (inverter)	5600 rpm		
Maximum torque	50.0 Nm		
Maximum current	37.0 A		